

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Gyeong-Su KEUM, et al.

Art Unit:

2812

Serial No.

10/730,998

Examiner:

Filed:

December 10, 2003

Confirmation No. 6344

For:

POLARITY EXCHANGER AND ION IMPLANTER

HAVING THE SAME

INFORMATION DISCLOSURE STATEMENT **UNDER 37 C.F.R. §1.56**

Commissioner for Patents Alexandria, VA 22313-1450

Sir:

Submitted herewith on Form PTO/SB/08 (or PTO-1449, modified) is a listing of a document(s) known to applicant in order to comply with applicant's duty of disclosure pursuant to 37 C.F.R. §1.56.

A copy of each listed document is being submitted to comply with the provisions of 37 C.F.R. §§1.97 & 1.98. [Box checked if applicable.]

 \square A copy of each listed non-U.S. patent and/or patent publication and cited literature is being submitted to comply with the provisions of 37 C.F.R. §§1.97 & 1.98. Cited U.S. patents and patent publications are not attached in accordance with the waiver set forth in the Notice by the Deputy Commissioner for Patent Examination Policy dated July 11, 2003, applicable to applications having a U.S. filing date after June 30, 2003. [Box checked if applicable.]

The submission of any document herewith, which is not a statutory bar, is not intended as an admission that such document constitutes prior art against the claims of the present application. Applicant does not waive any rights to take any action that would be appropriate to antedate or otherwise remove as a competent reference any document which is determined to be a *prima facie* prior art reference against the claims of the present application.

\square	The listed document(s) is/are being submitted in compliance with 37 C.F.R.				
1.97(b)(3): su	bmission before the mailing date of the first action on the merits. [Box checked if applicable.]				
	The foregoing document came to applicant's attention during the prosecution of				
their correspon	nding application. A copy of the Search Report is				
also attached.	[Box(es) checked if applicable.]				
	CERTIFICATION				
	The undersigned hereby certifies in accordance with 37 CFR §1.97(e)(1) that each				
item of info	rmation contained in this Information Disclosure Statement was cited in a				
communicatio	n from a foreign patent office in a counterpart foreign application not more than three				
(3) months pri	or to the filing of this Statement. [Box checked if applicable.]				
	* * *				
	Applicant respectfully requests that the listed document(s) be considered by the				
Examiner and	be made of record in the present application and that an initialed copy of Form				
PTO/SB/08 be	e returned in accordance with MPEP §609.				
	* * *				
	FEE PAYMENT				
	The fee mandated by 37 C.F.R. §1.17(p) is believed applicable. [Box checked if applicable.]				
	Attached is a check in payment of this fee (\$180.00). [Box checked if applicable.]				
	This fee may be charged to Deposit Account No. 50-1645. (A duplicate copy of				
	this paper is enclosed.) [Box checked if applicable.]				
	Respectfully submitted,				
March 16, 200	useme Thise				
Date	Eugene M. Lee Registration No. 32,039				

LEE & STERBA, P.C. 1101 WILSON BOULEVARD, SUITE 2000 ARLINGTON, VA 22209 703.525.0978 TEL 703.525.4265 FAX

DEPOSIT ACCOUNT CHARGE AUTHORIZATION

If fee payment is enclosed, this amount is believed to be correct. However, the Director is hereby authorized to charge any deficiency or credit any overpayment to Deposit Account No. 50-1645.

Any additional fee(s) necessary to effect the proper and timely filing of the above-paper may also be charged to Deposit Account No. 50-1645.

PTO/SB/08A (04-03) Approved for use through 04/30/2003. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

Sheet 1

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known			
Application Number	10/730,998		
Filing Date	December 10, 2003		
First Named Inventor	Gyeong-Su KEUM et al		
Art Unit	2812		
Examiner Name			
Attorney Docket Number	253/043		

Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where
Initials*	Cite No. ¹	Number-Kind Code ^{2 (¶ known)}	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear
		^{US-} 6,462,331 B1	10-08-2002	CHOI, et al	
		^{US-} 2002/0050577 A1	05-02-2002	CHA	
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			IGN PATENT DOCU	MENTS	***************************************	
	Cite No.1	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	\Box
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Examiner	Date	
Signature	Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, Washington, DC 20231.